

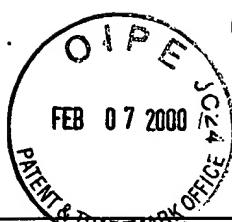
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SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE				Attorney Docket No.	04712/02000F	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No.	09/284,436	
				Applicant	Dosuk D. Lee et al.	
				Filing Date	April 12, 1999	
				Group		
				IDS Filed	February 4, 2000	
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
KG	RE 33,161	02/06/90	Brown et al.	—	—	
KG	RE 33,221	05/22/90	Brown et al.	—	—	
KG	4,157,378	06/05/79	Tomlinson et al.	—	—	
KG	4,346,709	11/10/80	Schmitt	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
KG	WO 92/00109	01/09/92	PCT	—	—	
KG	WO 92/02453	07/05/91	PCT	—	—	YES
KG	WO 94/02412	02/03/94	PCT	—	—	YES
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
KG	Aoki, "Science and medical applications of hydroxyapatite", JAAS, 11-15, 1991					
KG	Appel et al., "Oncologic, Endocrine & Metabolic - Overview - Recent advances in implants for bone growth promotion", Exp. Opin. Ther. Patents, 4(12):1461-1469, 1994.					
KG	Atala et al., "Injectable alginate seeded with chondrocytes as a potential treatment for vesicoureteral reflux", J. Urol., 150:745, 1993.					
KG	Athanasou et al., "Current Concepts Review: Cellular Biology of Bone Resorbing Cells", J. Bone and Joint Surg., 78-A:1096-1112, 1996.					
KG	Barton, et al., "Surface and bulk properties of amorphous calcium phosphate" Colloid Interface Sci. [Proc. Int. Conf.], 50th 3'71 (1976) [CA 87:73954v]					
KG	Benguzzi et al., "Alcap ceramic implantable devices and the effect of surface area on the delivery of various steroid hormones", Abstract, Eighth Southern Biomedical Engineering Conference Richmond, VA, October 15-16, 1989; Biomater. Artif. Cells Artif. Organs, 17:464, 1989.					
EXAMINER	<i>Kashmira</i>		DATE CONSIDERED	6.19.03		
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U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
KG	4,347,234	10/09/79	Wahlig et al.	—	—		
KG	4,429,691	02/07/84	Niwa et al.	—	—		
KG	4,612,053	05/09/85	Brown et al.	—	—		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
KG	WO 94/04657	08/12/93	PCT	—	—	YES	
—	WO 95/08319	09/23/94	PCT	—	—	YES	
—	WO 94/20064	09/15/94	PCT	—	—		
KG	WO 96/36562	05/20/96	PCT	—	—	YES	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
KG	Benguzzi et al., "Controlled release of hydrophilic compounds by resorbable and biodegradable ceramic drug delivery devices", Biomed. Sci. Instrum., 28:179-182, 1992						
—	Benguzzi et al., "Resorbable and biodegradable ceramics as drug delivery systems", Abstract, <i>Eighth Southern Biomedical Engineering Conference Richmond, VA, October 15-16, 1989; Biomater. Artif. Cells Artif. Organs</i> , 17:463, 1989.						
—	Benguzzi, et al., "Long-term delivery of Danazol by biodegradable ceramic devices", Abstract, <i>Eighth Southern Biomedical Engineering Conference Richmond, VA, October 15-16, 1989; Biomater. Artif. Cells Artif. Organs</i> , 17:465, 1989.						
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KG	Blumenthal et al., "Effect of Preparation Conditions on the Properties and Transformation of Amorphous Calcium Phosphate", <i>Mat Res. Bull.</i> , 7(11):1181 (Nov. 1972).						
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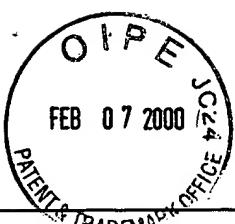
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U.S. PATENTS							
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KG	4,684,673	08/04/87	Adachi	—	—		
KG	4,737,411	11/25/86	Graves, Jr., et al.	—	—		
KG	4,842,603	06/27/89	Draenert	—	—		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
KG	WO 97/17285	11/07/96	PCT	—	—	YES	
KG	EP 0 268 463	05/25/88	Europe	—	—	YES	
KG	EP 0347028	11/18/89	Europe	—	—	YES	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
KG	Boskey, Adele, "Matrix Proteins and Mineralization: An Overview", <i>Connect Tissue Res.</i> , 35:(1-4):357-63, 1996.						
KG	Cannon et al., "Continuous delivery of azidothymidine by hydroxyapatite or tricalcium phosphate ceramics", <i>Biomed. Sci. Instrm.</i> , 31:159-164, 1995						
KG	Chu et al., "Articular cartilage repair using allogeneic perichondrocyte-seeded biodegradable porous polylactic acid (PLA): a tissue-engineering study", <i>J. Biomed. Mater. Res.</i> , 29:1147, 1995.						
KG	Chung, et al., "Biological effects of drug-loaded biodegradable membranes for guided bone regeneration" <i>J. Periodont. Res.</i> , 32:172-175, 1997						
EXAMINER	<i>Kathy M. C.</i>			DATE CONSIDERED <i>6-14-03</i>			
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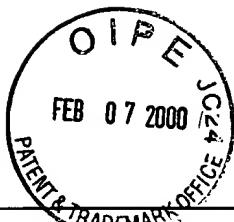
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U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
KG	4,849,193	05/02/88	Palmer et al.	—	—	
KG	4,880,610	04/20/88	Constantz	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
KG	EP 0664133	07/26/95	Europe	—	—	YES
KG	EP 06228011	08/16/94	Japan	—	—	abstract only
KG	JP 63170205	07/14/88	Japan	—	—	YES
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
KG	Clarke, et al., "Non-steroidal Anti-Inflammatory Drug Induced Differentiation of Bone Marrow Stromal Cells" 43 rd Annual Meeting, Ortho Res. Soc., San Francisco, CA, 574. February 9-13, 1997.					
	Constantz et al., "Skeletal repair by in situ formation of the mineral phase of bone", <i>Sci.</i> , 267:1976, 1995.					
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	Driessens et al., "Calcium Phosphate bone Cements" <i>Encycl. Hndbk. Of Biomat. And Bioeng.</i> , Wise (EDS) NY, Marcel Dekker, 1995.					
KG	Ducheyne et al., "Bioceramic Composites", Chapter 15 from "An Introduction to Bioceramics, Advanced Series in Ceramics", Vol. I.					
EXAMINER <i>Kathy M. L.</i>	DATE CONSIDERED <i>6-19-03</i>					
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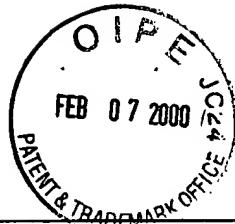
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U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
KG	4,917,702	02/09/88	Scheicher et al.				
KG	4,938,938	07/03/90	Ewers et al.				
KG	4,959,104	10/08/86	Lino et al.				
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
KG	JP 5-305134	11/19/93	Japan			YES	
KG	JP 2-182261	07/16/90	Japan			YES	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
KG	Eanes et al., "Intermediate states in the precipitation of hydroxyapatite", <i>Nature</i> , 208:365-367, October 23, 1965.						
	Eanes et al. "Intermediate phases in the basic solution preparation of alkaline earth phosphates" <i>Calcif. Tiss. Res.</i> , 2(1):38 (1968)[CA 69:110373f].						
	Eanes et al., "Thermochemical studies on amorphous calcium phosphate", <i>Calc. Tiss. Res.</i> , 5:133, 1970.						
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	Fabbri et al., "Hydroxyapatite-based porous aggregates: physico-chemical nature, structure, texture and architecture", <i>Biomat.</i> , 16:225-228, 1995.						
KG	Glimcher et al., "Recent studies of bone mineral: Is the amorphous calcium phosphate theory valid?", <i>J. of Cryst. Growth</i> , 53:100-119, 1981.						
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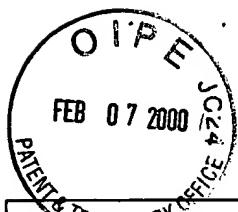
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(37 CFR §1.98(b))							
U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
KG	5,034,059	02/17/89	Constantz	—	—		
—	5,037,639	05/24/89	Tung	—	—		
—	5,047,031	05/30/89	Constantz	—	—		
—	5,053,212	07/27/90	Constantz et al.	—	—		
KG	5,085,861	03/12/84	Gerhart et al.	—	—		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
KG	JP 63111875	05/17/88	Japan	—	—	abstract only	
KG	JP 7277712	10/24/95	Japan	—	—	abstract only	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
KG	Glimcher et al., "Recent studies of the mineral phase in bone and its possible linkage to the organic matrix by protein-bound phosphate bonds", <i>Phil. Trans. R. Soc. Lond.</i> , B 304:479-508, 1984.						
—	Graves et al., "Resorbable ceramic implants", <i>J. Biomed. Mater. Res. Symp.</i> , No. 2 (part 1), 9-115, 1971.						
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KG	Hirasawa et al., "Manufacture of high purity hydroxyapatite", <i>Chem. Abstr.</i> , 108(10): 166, No. 78193h (March 7, 1988).						
EXAMINER	<i>Kat. MC</i>		DATE CONSIDERED		<i>6-19-03</i>		
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U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
KG	5,129,905	08/14/89	Constantz	—	—	
—	5,149,368	01/10/91	Liu et al.	—	—	
—	5,152,836	09/12/91	Hirano et al.	—	—	
—	5,164,187	04/05/90	Constantz et al.	—	—	
—	5,178,845	07/27/90	Constantz et al.	—	—	
KG	5,197,985	11/16/90	Caplan et al.	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
KG	Holmes, et al., "Surface areas by gas adsorption on amorphous calcium phosphate and crystalline hydroxyapatite", <i>Calc. Tiss. Res.</i> , 7:163, 1971					
—	Hubbell, "Biomaterials in tissue engineering", <i>Bio/Tech.</i> , 13:56, 1995.					
—	IJntema et al., "Hydroxyapatite microcarriers for biocontrolled release of protein drugs", <i>Int'l J. of Pharm.</i> , 112:215, 1994					
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KG	Ishikawa et al., "Effects of preparation in aqueous solution on properties of hydroxyapatites" <i>Dent. Mater. J.</i> , 9(1):58 (1990) [CA 113:218168j]					
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U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
KG	5,226,914	11/16/90	Caplan et al.	—	—	
—	5,262,166	11/16/93	Liu et al.	—	—	
—	5,279,831	04/05/90	Constantz et al.	—	—	
KG	5,281,265	01/25/94	Liu	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
—	—	—	—	—	—	—
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
KG	Jang, B.Z., "Advanced Polymer Composites", Ch. 1, Intro., <i>The Mater. Info. Soc.</i>					
—	Kim et al., "Effect of Recombinant Human (1-84) Parathyroid Hormone on Fracture Healing In Ovariectomized Rats" 43 rd Annual Meeting, orthopaedic Research Society, San Francisco, CA, 181-31, February 9-13, 1997.					
—	Labarthe et al., "Sur la structure et les propriétés des apatites carbonatées de type B phospho-calciques", <i>Ann. Chem.</i> , 8:289, 1973.					
—	Mileti, et al., "Development of a Hydroxyapatite ceramic matrix for the continuous delivery of coumadin", <i>Biomed. Sci. Instrm.</i> , 31:179-182, 1995					
—	Moldavan et al., "Continuous delivery of analgesics by ceramics", Abstract, <i>Fifth World Biomaterials Congress</i> , Toronto, Canada, June 2, 1996.					
KG	Moldavan et al., "A ceramic system for continuous release of acetylsalicylic acid", <i>Biomed. Sci. Instrm.</i> 30:175-180, 1994.					
EXAMINER	<i>Kate MC</i>		DATE CONSIDERED	6-19-00		
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U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
KG	5,286,763	06/05/89	Gerhart et al.	—	—	
	5,342,441	08/30/94	Mandai et al.	—	—	
	5,336,264	07/23/92	Constantz et al.	—	—	
KG	5,352,715	02/28/92	Wallace et al.	—	—	
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
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KG	Nolan, et al., "Clacium hydroxyapatite ceramic delivery system", <i>J. Bone and Joint Surg.</i> , 75-13:334, 1993.					
	Norian, et al., "The Material Science of Norian SRS, Skeletal Repair System."					
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	Otsuka et al., Effect of particle size of metastable calcium phosphates on mechanical strength of a novel self-setting bioactive calcium phosphate cement", <i>J. of Biomed. Mater. Res.</i> , 29:25-32, 1995.					
	Otsuka et al., "A novel skeletal drug-delivery system using self-setting calcium phosphate cement. 4. Effects of the mixing solution volume on anticancer drug release from homogeneous drug-loaded cement", <i>J. of Pharm. Sci.</i> , 84(6), June 1995.					
KG	Otsuka et al., "A novel skeletal drug-delivery system using self-setting calcium phosphate cement. 4. Effects of the mixing solution volume on the drug-release rate of heterogeneous aspirin-loaded cement", <i>J. of Pharm. Sci.</i> , 83(2), February 1994.					
EXAMINER	<i>Katrin M. C.</i>		DATE CONSIDERED <i>6-11-03</i>			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.						



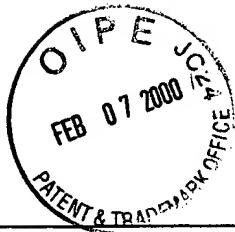
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U.S. PATENTS							
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)	
KG	5,399,665	11/05/92	Barrera et al.	→			
ICG	5,470,803	11/28/95	Bonfield et al.	→			
ICO	5,486,359	02/08/94	Caplan et al.	→			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)	
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)							
KG	Pool, "Coral chemistry leads to human bone repair", <i>Sci.</i> , 269:1772 (March, 1995).						
	Posner et al., "Synthetic amorphous calcium phosphate and its relation to bone mineral structure", <i>Bone Min. Struc.</i> , 8:273-281, 1975.						
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	Rey et al., "Chemical Properties of Poorly Crystalline Apatites" <i>Phosphorus Res. Bull.</i> 6:67-70 (1996) abstract only						
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KG	Shors et al., "porous hydroxyapatite" in <i>An Introduction to Bioceramics</i> (Hersch et al., eds), <i>Work Sci. Publ. Co. Pte. Ltd.</i> , 1993						
EXAMINER	<i>Kath M C</i>		DATE CONSIDERED	6-19-03			
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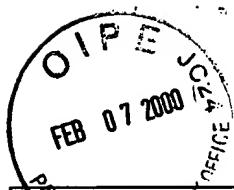
Sheet 11 of 13

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE				Attorney Docket No.	04712/02000F	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No.	09/284,436	
				Applicant	Dosuk D. Lee et al.	
				Filing Date	April 12, 1999	
				Group		
(37 CFR §1.98(b))				IDS Filed	February 4, 2000	
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
KG	5,496,399	08/23/94	Ison et al.	1		
1	5,514,378	02/01/93	Mikos et al.	2		
1	5,516,532	05/14/96	Atala et al.	3		
KG	5,522,893	06/04/96	Chow et al.	4		
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
KG	Suzuki, et al., "Identification Macrophage Migration Inhibitory Factor in Murine Neonatal Clavariae and Osteoblast", 43rd Ann. Mtg., Orthop. Res. Soc., February 9-13, 1997, San Francisco, CA.					
1	Termine, et al., "Amorphous/Crystalline Interrelationships in Bone Mineral", Calc. Tiss. Res. 1, 8-23, 1967.					
1	Thoma, et al., "Biodegradable controlled release implants based on β -tricalcium phosphate ceramic", Eur. J. Pharm. Biopharm., 38(3):107-112, 1992.					
1	Thoma, et al., "Biodegradable Gentamicin-Depotimplantate aus β -tricalcium-phosphatkeramik", Pharmazie, 46, 1991.					
1	Thomson et al, "Fabrication of biodegradable polymer scaffolds to engineer trabecular bone", J. Biomat. Sci. Polymer Edn., 7:23, 1995					
1	Tona, et al., "Derivatized hyaluronic acid films support mesenchymal stem cell attachment and proliferation", Fifth World Biomat. Cong., May 29-June 2, 1996, Toronto, Canada					
KG	Tormala, "Biodegradable self-reinforced composite materials; manufacturing structure and mechanical properties", Clin. Mat. 10:29, 1992.					
EXAMINER	Kath M. C.		DATE CONSIDERED 6-19-03			
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Sheet 12 of 13

SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE				Attorney Docket No.	04712/02000F	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				Serial No.	09/284,436	
				Applicant	Dosuk D. Lee et al.	
				Filing Date	April 12, 1999	
				Group		
(37 CFR §1.98(b))				IDS Filed	February 4, 2000	
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
LG	5,525,148	09/24/93	Chow et al.			
	5,542,973	08/06/96	Chow et al.			
	5,545,254	08/13/96	Chow et al.			
LG	5,565,502	10/15/96	Glimcher et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
LG	Tung, et al., "An intermediate state in hydrolysis of amorphous calcium phosphate", <i>Calcif. Tissue Int.</i> , 35:783, 1983.					
	Tung et al., "In vitro drug release of antibiotic-loaded porous hydroxyapatite cement", <i>Art. Cell, Blood Subs., and Immob. Biotech.</i> , 23(1), p. 81-88, 1995.					
	Uchida et al., "Slow release of anticancer drugs from porous calcium hydroxyapatite ceramic", <i>J. of Ortho. Res.</i> , 10:440-445, 1992.					
	Van Valkenburg, J., "Biological bone graft substitute helps body heal itself", <i>Commercial Appeal</i> , B4 (22 August 1996).					
KG	Yasue, et al., "Effect of Adsorption of Succinic Acid on the Formation of Amorphous Calcium Phosphate," <i>Journal of the Ceramic Society of Japan (Japanese Version)</i> , Vol. 102, No. 12, pp. 1122-1127, 1994.*1					
EXAMINER <i>Karen MG</i>	DATE CONSIDERED 6-19-03					
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<p>SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)</p> <p>(37 CFR §1.98(b))</p>				Attorney Docket No.	04712/02000F	
				Serial No.	09/284,436	
				Applicant	Dosuk D. Lee et al.	
				Filing Date	April 12, 1999	
				Group		
				IDS Filed	February 4, 2000	
U.S. PATENTS						
Examiner's Initials	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date (If Appropriate)
K6	5,605,713	02/25/97	Boltong			
1	5,665,120	09/09/97	Ohtsuka et al.			
1	5,691,397	11/25/97	Glimcher et al.			
LC6	5,700,289	12/23/97	Breitbart et al.			
FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION						
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)						
EXAMINER	<i>Kathleen</i>		DATE CONSIDERED	<i>6-19-03</i>		
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